

No.

200200120



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

A&H Technology Holding Corporation

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'PM 2266 RR'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of March, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER D&PL Technology Holding Corp.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME PMX 126661 RR DPX 00V06R		3. VARIETY NAME PM 2266 RR	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 157 100 Main Street Scott, Mississippi 38772 USA		5. TELEPHONE (include area code) (662) 742-4141		PVPO NUMBER 200200120	
		6. FAX (include area code) (662) 742-3182		FILING DATE 03/20/2002	
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware		9. DATE OF INCORPORATION February 29, 1996	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Delta and Pine Land Company Kelly Casavechia P.O. Box 157 Scott, MS 38772				FILING AND EXAMINATION FEE: \$ 2705 DATE 03/20/2002 CERTIFICATION FEE: \$ 432.00 DATE 01/26/2005	
11. TELEPHONE (include area code) (662) 742-4141		12. FAX (include area code) (662) 742-3182		13. E_MAIL kelly.h.casavechia@deltapine.com	
14. CROP KIND (Common Name) Cotton					
15. GENUS AND SPECIES NAME OF CROP Gossypium hirsutum		16. FAMILY NAME (Botanical) Malvaceae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse). a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)			19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)		
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO			21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)			23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)		
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER <i>Richard H. Sheetz</i>			SIGNATURE OF OWNER <i>William V. Hugie</i>		
NAME (Please print or type) Dr. Richard H. Sheetz			NAME (Please print or type) William V. Hugie		
CAPACITY OR TITLE Senior Cotton Breeder		DATE 2/26/02		CAPACITY OR TITLE Vice President/Director of Research	
				DATE 3/12/02	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
(1) Identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

USA - February 13, 2002

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

ROUNDUP READY® cotton:

These seeds are covered under U.S. Patents 5,633,435; 5,352,605; 5,530,196; 5,188,642; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

PVP APPLICATION: PM 2266 RR

EXHIBIT: A

(AMMENDED 2/4/04)

ORIGIN AND BREEDING HISTORY

PM 2266 RR was developed by the backcrossing breeding method. The donor parent was a plant of the cotton variety PAYMASTER 2326 RR carrying the Roundup Ready gene construct 1445. The RR construct 1445 was developed by the MONSANTO COMPANY using Recombinant DNA techniques to introduce a resistant version of the gene EPSPS which encodes the enzyme: 5-enolpyruvylshikimate-3-phosphate synthase (EPSPS). This modified EPSPS was originally isolated from the common soil borne microorganism *Agrobacterium sp.* strain CP4 and confers to cotton plants carrying the construct resistance or tolerance to the herbicide glyphosate [formulation of glyphosate, N (phosphonomethyl) glycine] commercialized under the trade name ROUNDUP.

The recurrent parent was a Paymaster Experimental line designated variously as PMX 126661 or DPX00V06. Backcrossing was conducted to the BC3F3 generation in Delta & Pine Land Company greenhouse facilities at Lubbock, TX and Scott, MS. In 1998, multiple lines derived from this backcross program were grown at Scott, MS. Of these, 8 lines were selected based on homozygosity for the Roundup Ready gene, for further agronomic testing. In 1999 these 8 lines were tested in replicated field tests at 5 locations in Texas. Based on these tests, 3 lines (1091, 1114, and 1116) were selected for trueness to the original experimental plant type, fiber traits, lint yield, lint yield consistency, stormproofness and maturity. The selected 3 lines were then combined to constitute the experimental PMX126661RR or DPX00V06R. During the growing seasons of 2000 and 2001, this experimental has been extensively tested at multiple locations while it has also been increased for commercial release. During the testing period PM 2266 RR has been observed to be uniform and stable in all the characteristics measured.

The recurrent parent PMX126661 was derived from a composite cross of P5490 (=Paymaster HS26) X 347 (=Paymaster 101A) X 355 (=Line A6-63'4) and Paymaster 404 made in 1983 at Aiken, Texas. During the period 1984-1992 the subsequent segregating populations of this cross were reselected, using the Pedigree Method of breeding. The criteria used in selecting progenies in each generation were yield potential, determinate plant type, fiber properties and stormproofness. In 1992 an F7 generation row (row 6661 at Aiken, Texas) was selected for testing in replicated trials and was given the experimental designation PMX 126661. In subsequent years this line has also been referred to as 00V06.

PM 2266 RR is composed of plants bearing either cream or yellow colored pollen in the approximate proportion of 68 % cream: 32 % yellow. The variety is otherwise stable in its characteristics in successive sexual generations with no other variants being noted.

PVP APPLICATION: PM 2266 RR

EXHIBIT: B

NOVELTY STATEMENT

PM 2266 RR is most similar to PM 280. PM 2266 RR, however, is different and novel in that it has **higher Lint Percent** on a stripped cotton basis (36.52 % versus 35.41 %), and shorter **Fiber Length** (1.065 inches versus 1.105 inches) than PM280.

In addition, PM 2266 RR differs from PM 280 in that it carries the **Roundup Ready gene** conferring tolerance to the herbicide glyphosate.

PVP APPLICATION: PM 2266 RR

EXHIBIT: B

NOVELTY STATEMENT
(RESPONSE OF 2/4/04)

Exhibit B:

As the Office objections regarding the claimed distinctness of PM 2266 RR versus PM 280 for **Lint Percent** and **Fiber Length** are understood, there is a question about the presence within the submitted data set of individual paired observations in which the differences for the traits claimed are either zero or, actually slightly in the opposite direction of the claimed difference. The supporting Tables as originally submitted include detailed statistical analyses of the data using the widely accepted 'Paired "T" Test'. The validity of this test is contingent on the magnitude of the computed "T" statistic across the entire data set and does not depend on whether each and every individual paired measurement shows a given difference. It is not uncommon in the assessment of a biological quantitative trait such as **Lint Percent** and **Fiber Length** to find this type of deviation. Most quantitative traits have a fairly large environmental component to the observed variation. This environmental component can, and very often does, confound individual measures. This is why multiple measurements over a range of conditions are performed and a statistical measure of significance such as a "T" test applied in the first place.

The **Lint Percent** difference was found to have a calculated "t" value well in excess of the "critical value" required at the 1% level of probability. The difference for **Fiber Length** was also shown to have calculated "t" value well in excess of the "critical value" required for significance at the 1% probability level. In other words the differences in **Lint Percent** and **Fiber Length** are "**Highly Significant**" and distinctness for both traits has been established.

The "Paired T test" data presented were the result of comparing both varieties for **Lint Percent** across 45 environments and for **Fiber Length** across 56 environments during 2 years of testing. An additional table was attached to the original Application that summarizes the results of calculating the "t" statistic on the paired comparisons for both traits. In the tables the "null hypothesis" for the test is that the mean difference is equal to zero. That is, that the two samples (of size 45 for **Lint Percent** and 56 for **Fiber Length**) come from the same population (i.e.: are the same variety). The computed "t" statistics for the data sets are as follows: 5.61382339 with 44 degrees of freedom for **Lint Percent** and -9.789762386 with 55 degrees of freedom for **Fiber Length**. The critical values for "t" at the 99% confidence level are 2.69 for both traits. This is to say that less than 1 time in 100 would we expect a

computed "t" value on paired samples of these sizes to be 2.69 or larger simply by chance variation in sampling. The "null hypothesis" must therefore be rejected. The samples come (with a greater than 99 % confidence level) from different populations.

In reality the probabilities, of equal or larger "t" values in our data sets are: 0.000001248 and 0.000000000000119 for **Lint Percent** and **Fiber length** respectively. Obviously the populations are "statistically different".

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EXHIBIT B
LINT PERCENT DATA COMPARISONS AND STATISTICAL ANALYSIS
(PAGE 1 OF 2)
FOR PM 2266RR VERSUS PM 280

(LINT % DATA IS BASIS STRIPPER HARVESTED COTTON)

ENVIRONMENT #	YEAR	TEST	LOCATION	PM2266RR LINT %	PM280 LINT %	DIFFERENCE
1	2000	AHP201	ROOSEVELT	30.40	28.20	2.2
2	2000	AHP201	HALE CENTER	35.40	32.70	2.7
3	2000	AHP201	SEAGRAVES	34.90	35.80	-0.9
4	2000	AHP202	ROOSEVELT	30.00	29.70	0.3
5	2000	AHP202	HALE CENTER	36.20	33.90	2.3
6	2000	AHP202	SEAGRAVES	33.10	34.00	-0.9
7	2000	AHP203	HALE CENTER	30.70	28.40	2.3
8	2000	AHP203	KLONDIKE	35.40	33.30	2.1
9	2000	AHP203	SEAGRAVES	32.80	30.70	2.1
10	2000	AHP401	ROOSEVELT	33.50	33.10	0.4
11	2000	AHP401	HALE CENTER	31.20	29.00	2.2
12	2000	AHP401	KLONDIKE	33.80	31.70	2.1
13	2000	AHP401	SEAGRAVES	34.50	32.80	1.7
14	2000	AHP401	HLE. CTR. DRY	32.40	28.70	3.7
15	2000	NHP301	HALE CENTER	30.50	29.50	1.0
16	2000	NHP301	HLE. CTR. DRY	31.20	30.90	0.3
17	2000	RPTRG	HASKELL	33.40	32.10	1.3
18	2000	RPTRG	ALTUS	43.30	39.20	4.1
19	2000	RPTRG	INADALE	42.10	38.00	4.1
20	2000	RPTRG	SAN ANGELO	38.60	37.40	1.2
21	2001	AHP201	ROOSEVELT	39.50	40.30	-0.8
22	2001	AHP201	HALE CENTER	34.80	33.50	1.3
23	2001	AHP201	DENVER CITY	38.30	37.70	0.6
24	2001	AHP202	HALE CENTER	37.50	35.30	2.2
25	2001	AHP202	DENVER CITY	39.80	38.80	1.0
26	2001	AHP203	FINNEY	41.50	40.20	1.3
27	2001	AHP203	ROOSEVELT	40.40	40.00	0.4
28	2001	AHP203	HALE CENTER	40.10	38.30	1.8
29	2001	AHP203	STANTON	41.70	38.60	3.1
30	2001	AHP203	HLE. CTR. DRY	39.60	39.10	0.5
31	2001	AHP301	ROOSEVELT	39.00	39.00	0.0
32	2001	AHP301	HALE CENTER	38.60	37.60	1.0
33	2001	AHP301	STANTON	40.00	39.00	1.0
34	2001	AHP301	HLE. CTR. DRY	33.00	37.00	-4.0
35	2001	AHP401	FINNEY	40.30	38.90	1.4
36	2001	AHP401	ROOSEVELT	38.00	38.00	0.0
37	2001	AHP401	HALE CENTER	39.00	39.00	0.0
38	2001	AHP401	DENVER CITY	39.00	38.00	1.0
39	2001	AHP401	STANTON	41.00	40.00	1.0
40	2001	AHP401	HLE. CTR. DRY	38.00	35.00	3.0
41	2001	RP STG3	HASKELL	36.90	36.60	0.3
42	2001	RP STG4	HASKELL	35.80	35.50	0.3
43	2001	RP STG4	HASKELL DRY	36.30	34.70	1.6
44	2001	RP STG4	ALTUS	36.10	35.80	0.3
45	2001	RP STG4	MUNDAY	35.80	34.00	1.8
AVERAGES (N=45)				36.52	35.31	1.21

EXHIBIT B

LINT PERCENT DATA COMPARISONS AND STATISTICAL ANALYSIS
 (PAGE 2 OF 2)
 FOR PM 2266RR VERSUS PM 280

(LINT % DATA IS BASIS STRIPPER HARVESTED COTTON)

STATISTICAL ANALYSIS 1/

"t" -Test: PAIRED TWO SAMPLE FOR MEANS

	LINT % <i>PM2266RR</i>	LINT % <i>PM280</i>
MEAN	36.52	35.3111111
VARIANCE	12.9393636	13.4619192
OBSERVATIONS	45	45
HYPOTHESIZED MEAN DIFF.	0	
DF	44	
CALCULATED "t" STATISTIC	5.61382339 **	
CRITICAL "t" AT 1 % PROB. LEVEL	2.69228622	

** Indicates statistical significance at the 1 % level of probability.

1/ Data analyzed as paired observations. See Steel, R.D.G., and Torrie, J.H., Principles and Procedures of Statistics. McGraw-Hill Co., Inc., New York. 1960. Pages 78-79

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EXHIBIT B
FIBER LENGTH DATA COMPARISONS AND STATISTICAL ANALYSIS
(PAGE 1 OF 2)
FOR PM 2266RR VERSUS PM 280
(FIBER LENGTH DATA IS IN INCHES)

ENVIRONMENT #	YEAR	TEST	LOCATION	PM2266RR FBR LENGTH	PM280 FBR LENGTH	DIFFERENCE
1	2000	AHP201	ROOSEVELT	1.110	1.110	0.000
2	2000	AHP201	HALE CENTER	1.070	1.090	-0.020
3	2000	AHP201	BAKER	1.030	1.080	-0.050
4	2000	AHP201	SEAGRAVES	1.070	1.080	-0.010
5	2000	AHP202	ROOSEVELT	1.070	1.120	-0.050
6	2000	AHP202	HALE CENTER	1.060	1.110	-0.050
7	2000	AHP202	BAKER	1.020	1.060	-0.040
8	2000	AHP202	SEAGRAVES	1.070	1.080	-0.010
9	2000	AHP203	HALE CENTER	1.080	1.180	-0.100
10	2000	AHP203	KLONDIKE	1.090	1.160	-0.070
11	2000	AHP203	BAKER	0.960	1.070	-0.110
12	2000	AHP203	SEAGRAVES	1.030	1.110	-0.080
13	2000	AHP401	FINNEY	1.060	1.060	0.000
14	2000	AHP401	ROOSEVELT	1.070	1.100	-0.030
15	2000	AHP401	HALE CENTER	1.060	1.060	0.000
16	2000	AHP401	BAKER	1.070	1.080	-0.010
17	2000	AHP401	KLONDIKE	1.120	1.160	-0.040
18	2000	AHP401	SEAGRAVES	1.080	1.120	-0.040
19	2000	AHP401	HLE. CTR. DRY	1.000	1.040	-0.040
20	2000	NHP301	FINNEY	1.040	1.060	-0.020
21	2000	NHP301	HALE CENTER	1.110	1.130	-0.020
22	2000	NHP301	BAKER	1.020	1.050	-0.030
23	2000	NHP301	HLE. CTR. DRY	1.000	1.060	-0.060
24	2000	RPTRG	HASKELL	1.113	1.107	0.006
25	2000	RPTRG	ALTUS	1.120	1.160	-0.040
26	2000	RPTRG	INADALE	0.993	1.033	-0.040
27	2000	RPTRG	SAN ANGELO	1.067	1.093	-0.026
28	2001	AHP201	ROOSEVELT	1.070	1.110	-0.040
29	2001	AHP201	HALE CENTER	1.140	1.180	-0.040
30	2001	AHP201	BAKER	0.940	0.960	-0.020
31	2001	AHP201	DENVER CITY	1.110	1.100	0.010
32	2001	AHP202	HALE CENTER	1.100	1.180	-0.080
33	2001	AHP202	BAKER	0.950	0.950	0.000
34	2001	AHP202	DENVER CITY	1.080	1.120	-0.040
35	2001	AHP203	FINNEY	1.040	1.110	-0.070
36	2001	AHP203	ROOSEVELT	1.100	1.150	-0.050
37	2001	AHP203	HALE CENTER	1.150	1.180	-0.030
38	2001	AHP203	STANTON	1.030	1.130	-0.100
39	2001	AHP203	HLE. CTR. DRY	1.070	1.130	-0.060
40	2001	AHP301	ROOSEVELT	1.070	1.160	-0.090
41	2001	AHP301	HALE CENTER	1.140	1.180	-0.040
42	2001	AHP301	BAKER	0.990	0.980	0.010
43	2001	AHP301	STANTON	1.070	1.080	-0.010
44	2001	AHP301	HLE. CTR. DRY	1.080	1.150	-0.070
45	2001	AHP401	FINNEY	1.000	1.100	-0.100
46	2001	AHP401	ROOSEVELT	1.070	1.100	-0.030
47	2001	AHP401	HALE CENTER	1.140	1.190	-0.050
48	2001	AHP401	BAKER	0.950	0.960	-0.010
49	2001	AHP401	DENVER CITY	1.120	1.130	-0.010
50	2001	AHP401	STANTON	1.040	1.050	-0.010
51	2001	AHP401	HLE. CTR. DRY	1.070	1.120	-0.050
52	2001	RP STG3	HASKELL	1.070	1.110	-0.040
53	2001	RP STG4	HASKELL	1.140	1.190	-0.050
54	2001	RP STG4	HASKELL DRY	1.045	1.105	-0.060
55	2001	RP STG4	ALTUS	1.170	1.195	-0.025
56	2001	RP STG4	MUNDAY	1.110	1.200	-0.090
AVERAGES (N=56)				1.065	1.105	-0.040

EXHIBIT B

FIBER LENGTH DATA COMPARISONS AND STATISTICAL ANALYSIS
 (PAGE 2 OF 2)
 FOR PM 2266RR VERSUS PM 280

(FIBER LENGTH DATA IS IN INCHES)

STATISTICAL ANALYSIS 1/

"t" -Test: PAIRED TWO SAMPLE FOR MEANS

	FBR LENGTH <i>PM2266RR</i>	FBR LENGTH <i>PM280</i>
MEAN	1.064964286	1.104696429
VARIANCE	0.002748944	0.003481852
OBSERVATIONS	56	56
HYPOTHESIZED MEAN DIFF.	0	
DF	55	
CALCULATED "t" STATISTIC	-9.789762386 **	
CRITICAL "t" AT 1 % PROB. LEVEL	2.668220986	

** Indicates statistical significance at the 1 % level of probability.

1/ Data analyzed as paired observations. See Steel, R.D.G., and Torrie, J.H., Principles and Procedures of Statistics. McGraw-Hill Co., Inc., New York. 1960. Pages 78-79

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(COTTON)**

**OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*Gossypium* spp.)**

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
D&PL TECHNOLOGY HOLDING CORP.	PMX 126661 RR DPX 00V06RR	PM 2266 RR

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY VPVO NUMBER
P.O. BOX 157 SCOTT, MISSISSIPPI 38772	200200120

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk * indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. PM 280 Variety 2. _____ Variety 3. _____

***1. SPECIES:**

 X *G. hirsutum* L. *G. barbadense* L.

***2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)**

<u> NT </u> Eastern	<u> NT </u> Delta	<u> NT </u> Central	<u> NT </u> Blacklands
<u> A </u> Plains	<u> NT </u> Western	<u> NT </u> Arizona	<u> NT </u> San Joaquin
<u> A </u> Other (Specify): Texas Rolling Plains, Oklahoma, New Mexico			

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
Plant Habit:				
Spreading, Intermediate, Compact	<u> Intermediate </u>	<u> Intermediate </u>		
Foliage:				
Sparse, Intermediate, Dense	<u> Intermediate </u>	<u> Intermediate </u>		
Stem Lodging:				
Lodging, Intermediate, Erect	<u> Erect </u>	<u> Erect </u>		
Fruiting Branch:				
Clustered, Short, Normal	<u> Normal </u>	<u> Normal </u>		

3. GENERAL: (continued)

200200120

Growth:Determinate, Intermediate,
IndeterminateIntermediateIntermediate**Leaf Color:**Greenish yellow, Light green,
Medium green, Dark greenDark GreenDark Green**Boll Shape:** Length less than width,

Length equal to width,

Length more than width

Length greater
than widthLength greater
than width**Boll Breadth:** Broadest at base,
Broadest at middleBroadest
at middleBroadest
at middle***4. MATURITY:** (50 % Open bolls; Preferred method; Describe method if different method was used.)

Date of 50 % open bolls

23.425.5

Approx % of open bolls Oct 15

5. PLANT:**Cm to 1st Fruiting Branch:**

(from cotyledonary node)

14.3414.90**No. of Nodes to 1st Fruiting Branch:**

(excluding cotyledonary node)

4.885.80**Mature Plant Height cm:**

(from cotyledonary node to terminal)

62.2363.5***6. LEAF:** Upper most, fully expanded leaf.**Type:** Normal, Sub Okra,

Okra, Super Okra

NormalNormal**Pubescence:** Absent, Sparse,Medium, Dense **OR** Trichomes/cm²

(Bottom surface excluding veins)

MediumSmooth**Nectaries:** Present or AbsentPresentPresent***7. STEM PUBESCENCE:**

Glabrous, Intermediate, Hairy

IntermediateGlabrous***8. GLANDS:** (Gossypol) Absent, Sparse, Normal, More Than Normal**Leaf:**NormalNormal**Stem:**NormalNormal**Calyx Lobe:** (normal is absent)AbsentAbsent***9. FLOWER:****Petals:** Cream, YellowCreamCream68% Cream**Pollen:** Cream, Yellow32% Yellow98% Cream**Petal Spot:** Present, AbsentAbsentAbsent

12

*10. SEED:

200200120

Seed Index:

(g/100 seed, fuzzy basis)

12.31

12.90

Lint Index:

(g lint/100 seeds)

7.21

7.99

*11. BOLL:

Lint Percent:

☒ Picked

☐ Pulled

36.70%

38.80%

OR

* Stripper Harvester equipped with Burr Extraction device.

Gin Turnout:

☐ Picked

☒ Stripped

36.52%

35.31%

Number of Seeds per Boll

33.21

31.00

Grams Seed Cotton per Boll

6.5

6.40

Number of Locules per Boll

4.7

4 - 5

Boll Type:

(Stormproof, Storm Resistant, Open)

☐ Stormproof

☐ Stormproof

12. FIBER PROPERTIES:

Specify Method (HVI or other):

HVI

HVI

* **Length:** (inches, 2.5% SL)

1.065

1.105

* **Uniformity:** (%)

83

83

* **Strength, T1** (g/tex)

29.0

29.6

* **Elongation, E1** (%)

7.6

6.5

* **Micronaire:**

4.4

4.4

Fineness (Source _____)

Yarn Tenacity: (cN/tex, 27 tex)

Yarn Strength: (lbs. 22's)

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

☐ NT *Alternaria macrospora*

☐ MS Fusarium Wilt

☐ NT Anthracnose

☐ NT Phymatotrichum Root Rot

☐ NT Ascochyta Blight

☐ NT *Pythium* (specify species)

☐ NT Bacterial Blight (Race 1)

☐ NT *Rhizoctonia solani*

☐ NT Bacterial Blight (Race 2)

☐ NT Southwestern Cotton Rust

☐ NT Bacterial Blight (Race ____)

☐ NT *Thielaviopsis basicola*

13. DISEASES : (continued)

200200120

☐ NT ☐ Diplodia Boll Rot

☐ MR ☐ Verticillium Wilt

☐ NT ☐ Other (specify) _____

14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

☐ NT ☐ Root-Knot Nematode

☐ NT ☐ Reniform Nematode

☐ NT ☐ Boll Weevil

☐ NT ☐ Grasshopper (specify species): _____

☐ NT ☐ Bollworm

☐ NT ☐ Lygus (specify species): _____

☐ NT ☐ Cotton Aphid

☐ NT ☐ Pink Bollworm

☐ NT ☐ Cotton Fleahopper

☐ NT ☐ Spider Mite (specify species): _____

☐ NT ☐ Cotton Leafworm

☐ NT ☐ Stink Bug (specify species): _____

☐ NT ☐ Cutworm (specify species): _____

☐ NT ☐ Thrips (specify species): _____

☐ NT ☐ Fall Armyworm

☐ NT ☐ Tobacco Bud Worm

☐ Other (specify): _____

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

Additional Test Data Attached

EXHIBIT D

ADDITIONAL DESCRIPTION OF THE VARIETY

PAYMASTER COTTONSEED RESEARCH
MULTIPLE LOCATION RANKINGS FOR LINT YIELD

YEAR: 1999 EXPERIMENT: 102

VARIETY OR STRAIN	AVG YLD	AVG RNK	LOCN:1		LOCN:5		LOCN:11		LOCN:16		LOCN:22		FIBER TRAITS				PL. HT. IN.	STR RES O-5	EAR- LY 0-99	VERT WLT 0-99	
			FINNEY		HLE CTR		MUNDAY		H.C.DRY		LEN IN.	STREN G/TEX	MIC	UR	ELG						
			YLD	RK	YLD	RK	YLD	RK	YLD	RK						TAFT					RK
PM126661BR (00V06BR)	1146	1	1353	1	923	3	1421	1	614	5	1418	2	1.043	27.3	4.2	82	8.4	28.1	3.7	23	15
PM 2167 RR (PM126514RR, 00V05R)	1109	2	1331	2	926	2	1230	4	681	1	1375	6	0.999	26.6	4.6	82	7.6	28.5	3.3	28	18
PM 2266 RR (PM126661RR, 00V06R)	1104	3	1285	3	898	4	1303	2	633	2	1399	3	1.057	28.6	4.4	83	8.4	29.2	3.4	21	15
PAYMASTER H-1218 BGRR	1047	4	1166	10	948	1	1153	6	573	9	1393	4	1.056	26.1	4.9	83	7.8	30.5	1.9	21	14
PAYMASTER PM 330	1022	5	1184	8	801	7	1145	7	596	7	1383	5	1.026	26.8	4.8	83	8.3	30.1	3.5	17	13
SUREGROW 747	1012	6	1101	12	668	12	1269	3	545	12	1479	1	1.056	26.2	4.4	83	8.5	29.9	2.1	11	12
PMX 126661	1012	7	1261	5	808	6	1139	8	611	6	1239	11	1.034	26.6	4.4	83	8.5	28.9	3.6	18	15
PAYMASTER PM 2330 RR	1006	8	1212	7	809	5	1117	10	583	8	1309	8	1.016	27.7	4.8	83	8.8	30.0	3.3	16	13
P107872 X 466*303 126514	1003	9	1178	9	788	8	1214	5	553	10	1279	10	1.030	28.5	4.4	83	8.7	29.8	3.3	22	12
P404 X SJ4*5B9-184 116717	988	10	1158	11	754	11	1096	11	630	3	1301	9	0.974	27.2	4.8	82	7.2	27.3	3.1	24	17
PAYMASTER PM 2320 RR	973	11	1260	6	787	9	838	12	615	4	1364	7	1.000	29.0	4.9	84	7.7	30.5	4.0	12	11
	932	12	1262	4	787	10	1119	9	547	11	944	12	1.056	29.0	4.5	83	8.4	30.5	3.1	17	12
NO. OF TESTS IN AVERAGE	5		1	1	1	1	1	1	1	1	1	1	5	5	5	5	5	5	5	3	3
LOCATION AVERAGE	1061		1257		879		1199		631		1340		1.019	27.4	4.5	82	7.9	29.0	3.5	23.9	15.4
C.V.(%)	9.03		9.57		9.62		8.75		9.05		7.50										
R-SQUARED	0.93		0.51		0.60		0.76		0.60		0.77										
L.S.D.(10%)	45.0		126.7		89		110.5		60		105										

*STORM RESISTANCE: SCALE 0-5 WITH 5 MOST RESISTANT.

**VERTICILLIUM WILT SUSCEPTIBILITY: SCALE 0-99 WITH 99 MOST SUSCEPTIBLE.

***EARLINESS: SCALE 0-99 WITH 99 EARLIEST.

DELTA & PINE LAND HIGH PLAINS COTTON RESEARCH YIELD TEST RESULTS

YEAR: 2000 EXPERIMENT: AHP 401 LOCATION NUMBER: 1,3,5,7,8,9,16
 LOCATION NAME: FINNEY (NO YLD), RSEVLT, HLE CTR, KLNDIKE, BAKER (NO YLD), SEAGRAVES, HLE CTR DRY
 C.V.: 8.1% R-SQUARED: 0.98 L.S.D.(10%): 42 LBS

ENT NO.	VARIETY OR STRAIN	YLD LB/ AC.	RNK	LINT PER-CENT	FIBER PROPERTIES							PL. HT. IN.	VIS UAL 0-9	STR RES 0-5	EAR-LY 0-99	VERT WLT 0-99
					LEN IN.	STREN G/TEX	MIC	MAT %	FINE MLTX	UR ELG						
1	PAYMASTER PM 183	874	53	32.1	0.981	26.6	4.5			81	6.3	23.2	5.7	4.1	31.4	22.9
2	PAYMASTER PM 280	945	50	31.5	1.089	29.8	4.1			82	6.4	25.4	5.6	3.1	25.9	25.0
3	PAYMASTER PM 2326 RR	1127	26	33.5	1.054	28.9	4.3			83	6.8	26.8	6.4	3.4	26.0	25.4
4	PAYMASTER PM 2200 RR	1081	35	33.0	1.059	28.1	4.2			82	6.5	26.7	5.6	3.2	24.2	23.3
5	DELTAPINE DP 2379	1126	28	33.4	1.041	27.8	4.7			83	7.2	25.7	6.4	3.1	21.3	17.5
6	SUREGROW 747	1178	19	34.7	1.079	26.0	4.4			82	7.2	24.9	6.5	2.0	19.1	12.1
7	DP 8C09 [=DPX565]	967	48	33.5	1.093	28.4	3.9			82	6.3	27.7	6.1	1.9	14.1	9.2
8	STONEVILLE TEXAS 239	1056	40	33.9	1.047	27.3	4.2			82	6.5	24.8	6.1	2.6	19.8	12.9
9	P5490 X 347*355 X P404 126661	1127	27	32.0	1.043	27.4	4.0			82	7.5	24.3	6.4	3.3	24.4	15.8
10	P107872 X 466*303 126514	1266	7	35.2	1.004	27.3	4.6			82	6.2	24.1	7.1	3.0	32.1	22.9
11	HS5C3 138223 1511583	1165	21	33.0	0.997	29.1	4.5			82	6.2	26.0	6.2	3.6	28.5	21.3
12	107725 X CA-3068 18385 1510740	1231	11	33.9	1.033	27.5	4.3			82	6.4	24.9	6.6	3.2	24.4	21.7
13	1413150 X 431242 1609305	1092	33	32.2	1.020	26.6	4.0			82	6.5	25.7	7.0	3.8	28.8	26.7
14	1510688 X 149552 1510334	1161	22	33.3	1.023	30.0	4.4			82	6.5	25.1	6.9	3.3	22.4	20.4
15	107872 X 1510707 1510379	1103	31	33.5	1.056	31.8	4.5			83	6.5	24.4	6.5	3.4	23.0	21.7
16	1510688 X 118136 137492	1096	32	34.9	1.014	28.3	4.2			81	6.5	24.6	6.6	3.0	27.3	25.0
17	KNX666 X P5490 138199	1028	42	32.8	1.056	27.2	4.0			82	7.0	24.2	6.4	3.5	25.6	22.5
18	116495 X 560092 1410022	1072	38	33.0	1.040	28.1	4.3			82	6.5	22.9	6.1	3.5	36.3	32.9
19	P145-786 X SHORTY 149916	1091	34	33.6	1.044	28.5	4.2			82	6.4	22.6	6.6	3.5	30.6	20.0
20	90203T-2074-301-7SB	1020	43	32.0	1.071	29.2	3.7			81	6.3	25.9	6.4	3.4	18.5	17.1
21	926555-3083-7SB	997	45	32.6	1.120	27.1	4.0			81	6.1	26.2	6.2	2.9	13.7	10.4
22	DPX 6414	1116	30	34.1	1.050	28.6	4.3			82	6.3	26.0	5.9	3.0	20.0	22.9
23	PM 183 RR-281	1132	24	34.7	1.074	28.4	3.9			81	6.6	27.5	6.3	3.2	18.7	18.8
24	PM 2167 RR (PM126514RR, 00V05R)	1240	9	35.0	1.006	26.6	4.4			82	6.6	24.6	6.8	3.3	27.3	28.3
25	PM 2266 RR (PM126661RR, 00V06R)	1215	15	33.5	1.066	29.6	4.0			82	7.3	25.3	6.4	3.1	22.5	21.7
26	DELTAPINE DP 2156	1075	36	33.2	1.003	26.4	4.4			82	6.5	24.6	6.4	2.4	26.0	22.9
27	DELTAPINE DP 9815 RR (2156R)	1228	12	34.6	0.989	26.0	4.4			82	6.8	26.1	7.0	2.7	28.1	23.3
28	DELTAPINE 9818 RR (2379)	1179	18	33.9	1.036	28.8	4.6			83	7.7	26.9	6.6	3.6	21.0	24.2
29	ACALA 1517-95	991	46	32.9	1.123	31.5	4.3			83	6.2	28.5	5.7	1.8	18.5	22.5
30	PAYMASTER HS 26	963	49	32.4	1.063	28.6	4.3			82	6.8	25.8	6.1	3.2	20.7	17.9
31	PAYMASTER PM 330	1117	29	33.7	1.031	28.4	4.4			82	7.0	27.0	6.7	3.4	21.8	20.4
32	PAYMASTER PM 2330 RR (98BULK)	1169	20	32.5	1.040	28.7	4.0			82	7.7	26.0	7.2	3.3	27.1	22.5
33	STONEVILLE BXXN-16	1064	39	33.4	1.046	28.2	4.1			82	6.2	24.0	6.0	2.1	25.9	16.7

200200120

DELTA & PINE LAND HIGH PLAINS COTTON RESEARCH YIELD TEST RESULTS

YEAR: 2000 EXPERIMENT: AHP 401 LOCATION NUMBER: 1,3,5,7,8,9,16
 LOCATION NAME: FINNEY (NO YLD), RSEVLT, HLE CTR, KLNDIKE, BAKER (NO YLD), SEAGRAVES, HLE CTR DRY
 C.V.: 8.1% R-SQUARED: 0.98 L.S.D.(10%): 42 LBS

ENT NO.	VARIETY OR STRAIN	YLD LB/ AC.	RNK	LINT PER- CENT	FIBER PROPERTIES					PL HT. IN.	VIS UAL 0-9	STR RES 0-5	EAR- LY 0-99	VERT WLT 0-99
					LEN IN.	STREN G/TEX	MIC %	FINE MLTX	UR ELG					
34	STONEVILLE BXN-47	978	47	34.5	1.073	27.0	4.2		81	6.3	26.6	2.2	18.1	15.8
35	286007-70056-803-901/FC2056 179372	938	51	32.6	1.091	29.4	3.9		81	5.7	26.4	3.3	14.2	16.3
36	PM330 RR-3628	1007	44	32.0	1.051	29.1	4.6		83	7.3	27.5	3.5	21.3	19.2
37	HELENA HCR 7051 (PMX 99L04)	1042	41	32.6	1.087	28.5	3.7		81	6.4	25.5	2.3	24.3	20.4
38	HELENA HCR 8061-31 (PMX 99L05)	918	52	33.4	1.100	29.2	3.5		82	6.5	24.0	2.2	16.5	12.5
39	PM 330 BG/RR [2000 BULK:1201+1222+1739]	1269	6	33.9	1.037	28.0	4.0		82	6.9	25.3	3.5	24.0	22.5
40	X413340 BG/RR [2000 BULK:246+292]	1232	10	32.4	1.060	29.0	4.3		83	7.1	24.4	3.1	25.9	21.3
41	X105996 BG/RR-177	1132	25	35.7	1.070	29.0	4.1		81	6.8	25.8	3.0	21.2	20.8
42	X126661 BG/RR [2000 BULK:2061+2073+2076]	1310	2	33.1	1.039	28.3	3.8		81	7.5	23.1	6.9	3.5	25.5
43	DELTAPINE DP 215 B (2156B)	1216	14	33.6	1.011	27.1	4.4		82	6.8	24.9	2.3	28.0	19.2
44	DELTAPINE 237B (2379)	1192	17	32.5	1.060	28.0	4.2		82	7.5	25.6	6.6	3.4	23.8
45	DELTAPINE DP 2379 BR (DPX 9C23 B/R)	1301	5	32.6	1.050	28.5	4.1		82	7.2	27.4	6.9	3.4	22.6
46	PAYMASTER PM 2326 BG/RR (98 BULK)	1211	16	32.8	1.041	29.0	4.3		83	7.3	27.0	6.8	3.3	25.2
47	PAYMASTER PM 2280 BG/RR (98BULK)	1220	13	33.0	1.076	29.3	4.0		81	6.7	25.4	2.9	27.5	25.4
48	PAYMASTER H 1218 BG/RR	1310	3	35.4	1.051	27.1	4.4		82	6.4	26.8	2.3	20.2	18.3
49	PAYMASTER H1560 BG/RR	1073	37	34.3	1.081	28.5	3.8		82	6.6	28.8	6.1	2.6	14.2
50	PM 145 BG-2866	1246	8	34.2	1.039	27.7	3.9		81	6.0	24.7	6.4	3.4	25.6
51	PM HS26 BG/RR-751	1150	23	32.6	1.020	29.9	4.2		83	7.2	27.4	7.1	3.6	21.9
52	X11446 BG/RR-170	1305	4	34.6	1.006	26.9	4.4		82	5.8	23.8	7.1	3.3	26.8
53	PM126661 [531][1445]-98BC3F3-2069	1320	1	33.4	1.037	26.7	4.0		82	8.1	24.5	6.9	3.5	24.2
NO. OF TESTS IN AVERAGE		5		6	7	7	7		7	7	7	7	7	4
LOCATION AVERAGES		1126		33.4	1.049	28.2	4.2		82	6.7	25.5	6.5	3.1	23.5

*STORM RESISTANCE: SCALE 0-5 WITH 5 MOST RESISTANT.

***VERTICILLIUM WILT SUSCEPTIBILITY: SCALE 0-99 WITH 99 MOST SUSCEPTIBLE.

***EARLINESS: SCALE 0-99 WITH 99 EARLIEST.

DELTA & PINE LAND HIGH PLAINS COTTON RESEARCH YIELD TEST RESULTS
 YEAR: 2001 EXPERIMENT: AHP401 LOCATION NUMBERS: 1, 3, 5, 8 (FBR), 9, 10, 16
 LOCATION NAME: FINNEY, RSVLT, HLE CTR IRRG, BAKER(FBR), DNVR CTY, STANTON, H C DRYLAND
 C.V.: 9.43 % R-SQUARED: 0.94 L.S.D.(10%): 51 LBS

ENT NO.	XNO	VARIETY OR STRAIN	YLD LB/AC.	RNK	LINT PER-CENT	FIBER PROPERTIES				PL. HT. IN.	VIS UAL	STR RES	EAR LY	VERT WLT
						LEN IN.	STREN G/TEX	MIC	UR ELG					
1		PAYMASTER PM 280	1022	55	0.380	1.093	29.4	4.6	83	6.7	24.6	5.6	3.4	25.0
2		PAYMASTER HS 26	1224	39	0.387	1.051	29.0	4.9	83	8.0	25.0	6.2	3.4	20.4
3		PHYTOGEN PSC 355	1291	15	0.414	1.100	28.4	5.1	84	8.6	25.8	7.9	2.0	19.8
4		STONEVILLE TEXAS 239	1251	28	0.412	1.069	27.5	4.8	83	7.8	23.6	6.8	2.5	18.9
5		STONEVILLE 474	1366	10	0.432	1.090	27.6	5.0	83	7.1	24.9	7.6	1.9	15.2
6		SUREGROW 747	1371	8	0.427	1.067	25.8	5.0	83	9.2	24.6	7.5	2.0	13.9
7		DP 8C09 [=DPX565]	1386	7	0.410	1.143	29.2	4.9	83	6.7	27.1	7.8	1.9	9.1
8		DELTAPINE DP 2379	1273	23	0.391	1.049	28.6	5.1	82	8.7	25.2	7.0	3.2	21.1
9	00V14	116495 X 560092 1410022	1199	42	0.393	1.016	27.7	4.7	82	7.4	21.6	6.3	3.5	42.2
10	00V10	1510688 X 149552 1510334	1195	46	0.392	1.036	30.6	4.9	84	7.2	23.9	7.2	3.2	23.9
11	00V08	107725 X CA-3068 18385 1510740	1413	4	0.412	1.031	26.9	5.0	83	7.6	24.0	6.9	3.2	24.7
12	00V24	403025 X 403049 177951	1288	17	0.392	1.056	27.0	4.7	82	6.3	24.6	7.6	3.0	26.8
13	00V26	107725 X 431242 137659 179797	1198	44	0.384	1.047	28.5	5.2	83	6.4	22.9	6.4	3.6	29.9
14	01V79BR	PM126661BR-2069	1199	43	0.382	1.040	26.0	4.4	82	10.0	22.6	6.7	3.7	23.9
15	00V47	PHS26-02 X 221144 588478	1286	18	0.409	1.031	27.0	5.2	82	7.2	23.0	6.4	3.3	35.4
16	01V07	REBA P-288 X 892-01 588720	1474	2	0.421	1.086	28.0	4.8	83	6.9	21.7	6.8	2.7	28.4
17	01V26	X1510740-07 589772	1444	3	0.409	1.030	27.4	5.2	82	7.6	23.6	7.4	3.4	25.3
18	00V48	X1510740-21 589776	1489	1	0.424	1.030	26.0	5.1	82	7.6	23.9	7.1	3.2	26.8
19	00V33	HS26 X SNO126 2161023	1291	16	0.399	1.057	28.8	5.4	83	6.4	25.6	7.1	2.3	18.3
20	00V04	105711 * LA 861885 X 106091 * 221144 2280025	1275	22	0.403	1.087	30.4	4.8	83	6.2	23.7	6.0	2.2	27.4
21	00V35	REBA P-288 X 118000 2280084	1283	19	0.395	1.103	29.2	4.8	83	6.4	25.6	7.4	2.5	18.2
22	00V32	DP 2156 X SUREGROW 501 2280114	1406	5	0.419	1.104	28.5	4.8	84	7.3	27.6	7.8	1.2	16.5
23	00V41	DP 2156 X SUREGROW 501 2280120	1228	35	0.447	1.066	26.3	4.8	83	7.3	25.7	7.4	2.1	24.7
24	00V40	DP 5409 X DC81/AC90/65 2280139	1228	36	0.385	1.071	30.2	4.9	83	7.2	26.0	6.7	1.8	24.6
25	00V02	REBA P-288 X 118000 2280229	1298	14	0.395	1.067	29.2	5.2	83	6.3	25.8	7.1	1.8	21.7
26	00V03	HS 200 X DC81/AC90/65 2280269	1249	29	0.401	1.110	29.4	4.6	83	7.1	22.4	7.3	2.7	24.0
27	00V44	HS 26 X SUREGROW 501 2280302	1323	12	0.383	1.136	29.5	4.9	84	8.3	27.5	7.8	1.6	13.4
28	00V38	P892 X 136180 2280515	1322	13	0.398	1.079	29.1	4.8	83	7.5	26.3	6.2	3.1	16.8
29		PAYMASTER PM 2326 RR	1228	37	0.390	1.057	29.1	5.0	83	7.8	24.6	6.4	3.3	23.1
30		PAYMASTER PM 2200 RR	1077	54	0.384	1.063	29.2	4.9	83	7.0	26.4	6.1	3.2	20.8
31		DELTAPINE 9818 RR (2379)	1172	49	0.395	1.039	28.3	5.1	83	9.3	25.1	6.6	3.4	18.9
32		DELTAPINE DP 9815 RR (2156R)	1207	40	0.394	0.980	25.2	5.1	82	8.5	25.0	7.4	2.1	29.7
33	01V39R	PM11446[1445]-98BC3F3-1042	1151	51	0.386	1.039	28.3	4.9	83	7.1	23.0	6.8	3.0	30.8

DELTA & PINE LAND HIGH PLAINS COTTON RESEARCH YIELD TEST RESULTS
 YEAR: 2001 EXPERIMENT: AHP401 LOCATION NUMBERS: 1, 3, 5, 8 (FBR), 9, 10, 16
 LOCATION NAME: FINNEY, RSVLT, HLE CTR IRRG, BAKER(FBR), DNVR CTY, STANTON, H C DRYLAND
 C.V.: 9.43 % R-SQUARED: 0.94 L.S.D.(10%): 51 LBS

ENT NO.	XNO	VARIETY OR STRAIN	YLD LB/AC.	RNK	LINT PER-CENT	FIBER PROPERTIES				PL. HT. IN.	VIS UAL	STR RES	EAR- LY	VERT WLT
						LEN IN.	STREN G/TEX	MIC	UR ELG					
34	00V05R	PM 2167 RR (PM126514RR, 00V05R)	1264	27	0.415	1.007	27.7	5.0	82	8.1	22.3	7.1	3.6	12.5
35	00V06R	PM 2266 RR (PM126661RR, 00V06R)	1240	31	0.390	1.056	28.4	4.8	83	8.0	23.5	6.2	3.1	11.7
36		STONEVILLE ST 2454R	1196	45	0.412	1.053	27.9	4.8	83	7.8	23.5	6.3	2.4	15.8
37		ALL-TEX ATLAS RR	1163	50	0.386	1.027	27.2	4.8	82	8.0	26.1	6.1	3.3	12.9
38		ALL-TEX XPRESS RR	913	56	0.341	1.097	30.3	4.4	84	6.3	25.1	5.4	3.3	19.6
39		PAYMASTER PM 2326 BG/RR	1202	41	0.387	1.021	28.2	4.7	82	8.9	24.9	6.3	3.4	13.8
40		PAYMASTER PM 2280 BG/RR	1135	53	0.382	1.083	29.1	4.7	82	7.0	24.6	6.2	3.0	15.0
41		PAYMASTER H 1218 BG/RR	1346	11	0.419	1.066	26.9	5.3	83	7.4	24.6	7.4	2.2	13.8
42	99V05BR	PM 2344 BG/RR (PMX413340BR, 99V05BR)	1182	48	0.379	1.057	28.6	4.9	83	7.7	23.6	6.4	3.2	13.8
43	99V02BR	X105996 BG/RR-177	1282	20	0.427	1.084	29.3	4.8	82	7.1	23.8	6.4	2.5	13.3
44	00V54B	PM 145 BG-2866	1266	26	0.398	1.036	27.6	4.3	81	7.2	24.3	6.7	3.2	13.8
45	00V56BR	X11446 BG/RR-170	1392	6	0.403	1.037	28.4	4.8	83	6.9	22.3	7.6	3.4	12.1
46	01V40BR	PM11446[531][1445]-98BC3F3-133	1228	38	0.393	1.044	28.0	4.8	83	6.7	23.4	11.2	3.4	18.8
47	01V57BR	PM280[531][1445]-98BC3F3-0054	1269	24	0.396	1.076	28.5	5.1	83	7.5	25.7	6.4	3.3	10.4
48	01V59BR	PM280[531][1445]-98BC3F3-1472	1150	52	0.387	1.071	29.0	4.9	83	7.3	25.7	7.0	3.0	12.1
49	01V29BR	PM HS200 BG/RR-21	1231	33	0.408	1.047	27.2	4.6	82	8.2	24.3	7.0	2.7	14.6
50	00V06BR	X126661 BG/RR [2000 BLK:2061+2073+2076]	1248	30	0.381	1.054	27.1	4.5	82	8.7	22.6	6.4	3.4	12.5
51	00H03	107872 X 1414078 1161478	1231	34	0.408	1.041	27.1	4.8	82	7.0	22.8	6.8	2.7	13.3
52	00H04	CA-3068*P147 X 1510012*PD073 1160849	1185	47	0.401	1.020	27.9	4.9	83	7.8	23.5	6.7	3.4	21.3
53	00H29	DPX0159//DC81/AC90.-65/3/DP5404 [941104-6007-7SB]	1268	25	0.413	1.069	29.0	5.1	83	7.5	25.1	7.4	2.8	10.0
54		FIBERMAX 989 RR	1369	9	0.424	1.091	30.4	4.7	82	6.2	25.2	7.5	2.1	7.9
55	01V78	X1511583 (2000 BLK:08,12,21,24,27,29)	1276	21	0.396	1.029	29.6	5.0	83	6.8	24.9	6.7	3.3	23.3
56	01V32R	PM105996[1445]-98BC3F3-839	1234	32	0.402	0.989	29.2	5.3	82	7.3	25.3	6.3	3.8	15.4
NO. OF TESTS IN AVERAGE			6	6	6	7	7	7	7	7	6	6	6	4
EXPERIMENT AVERAGES			1257		0.40	1.059	28.3	4.9	83	7.5	24.5	6.9	2.9	12.8

*STORM RESISTANCE: SCALE 0-5 WITH 5 MOST RESISTANT.
 **VERTICILLIUM WILT SUSCEPTIBILITY: SCALE 0-99 WITH 99 MOST SUSCEPTIBLE.
 ***EARLINESS: SCALE 0-99 WITH 99 EARLIEST.

DELTA & PINE LAND HIGH PLAINS COTTON RESEARCH
ACROSS YEARS PERFORMANCE SUMMARY OF VARIETIES AND STRAINS

REGION: HIGH PLAINS

NO. OF YEARS: 2

YEARS: 2000-2001

ENT #	XNO	VARIETY OR STRAIN	YLD AHP	RNK AHP	YLD NHP	RNK NHP	YLD SHP	RNK SHP	LINT PER-CENT	FIBER PROPERTIES				PL. HT. IN.	VIS UAL	STR RES	EAR-LY	VERT WLT	
										LEN IN.	STREN G/TEX	MIC	UR ELG						
1		PAYMASTER PM 280	987	24	922	24	1041	24	34.8	1.091	29.6	4.4	83	6.5	25.0	5.6	3.3	25.5	20.2
2		PAYMASTER PM 2326 RR	1182	16	1136	14	1220	19	36.3	1.056	29.0	4.7	83	7.3	25.8	6.4	3.4	24.6	17.5
3		PAYMASTER PM 2200 RR	1079	23	1057	22	1097	23	35.7	1.061	28.7	4.5	82	6.8	26.5	5.8	3.2	22.6	16.9
4		DELTAPINE DP 2379	1206	12	1190	7	1220	20	36.2	1.045	28.2	4.9	83	7.9	25.4	6.7	3.2	21.2	14.4
5		SUREGROW 747	1283	4	1182	8	1368	5	38.7	1.073	25.9	4.7	83	8.2	24.8	7.0	2.0	16.7	10.6
6		DP 8C09 [=DPX565]	1195	15	1071	21	1299	8	37.2	1.118	28.8	4.4	83	6.5	27.4	6.9	1.9	11.8	8.3
7		STONEVILLE TEXAS 239	1163	20	1088	19	1225	17	37.6	1.058	27.4	4.5	83	7.2	24.2	6.4	2.5	19.4	11.5
8	00V08	107725 X CA-3068 18385 1510740	1330	2	1232	3	1412	1	37.6	1.032	27.2	4.6	82	7.0	24.5	6.7	3.2	24.6	16.7
9	00V10	1510688 X 149552 1510334	1180	17	1100	16	1246	15	36.3	1.029	30.3	4.6	83	6.8	24.6	7.0	3.3	23.1	15.4
10	00V14	116495 X 560092 1410022	1141	21	1045	23	1222	18	36.2	1.028	27.9	4.5	82	7.0	22.3	6.2	3.5	39.1	27.9
11	00V05R	PM 2167 RR (PM126514RR, 00V05R)	1253	8	1173	9	1320	7	38.3	1.006	27.1	4.7	82	7.4	23.5	6.9	3.4	30.1	20.4
12	00V06R	PM 2266 RR (PM126661RR, 00V06R)	1229	9	1201	5	1251	14	36.2	1.061	29.0	4.4	83	7.6	24.5	6.3	3.1	23.4	16.7
13		DELTAPINE DP 9815 RR (2156R)	1216	10	1151	10	1272	10	37.0	0.984	25.6	4.8	82	7.6	25.6	7.2	2.4	28.8	17.5
14		DELTAPINE 9818 RR (2379)	1175	18	1123	15	1219	21	36.7	1.037	28.5	4.8	83	8.5	26.1	6.6	3.5	20.0	17.9
15		PAYMASTER HS 26	1105	22	1082	20	1124	22	35.5	1.057	28.8	4.6	83	7.4	25.4	6.2	3.3	20.6	15.0
16	99V05BR	PM2344BG/RR (PM413340BR, 99V05BR)	1205	14	1148	11	1252	13	35.1	1.059	28.8	4.6	83	7.4	24.0	6.5	3.2	26.0	17.5
17	99V02BR	X105996 BG/RR-177	1214	11	1145	12	1271	11	39.2	1.077	29.2	4.5	82	7.0	24.8	6.3	2.8	19.7	17.1
18	00V06BR	X126661BG/RR [BLK:2061+2073+2076]	1276	5	1195	6	1344	6	35.6	1.046	27.7	4.2	82	8.1	22.9	6.6	3.5	26.4	17.3
19		PAYMASTER PM 2326 BG/RR	1206	13	1144	13	1258	12	35.7	1.031	28.6	4.5	83	8.1	26.0	6.6	3.4	24.6	18.5
20		PAYMASTER PM 2280 BG/RR	1174	19	1091	18	1243	16	35.6	1.079	29.2	4.4	82	6.9	25.1	6.1	2.9	27.0	20.2
21		PAYMASTER H 1218 BG/RR	1330	3	1240	2	1405	2	38.6	1.059	27.0	4.8	83	6.9	25.8	7.1	2.2	20.1	16.0
22	00V54B	PM 145 BG-2866	1257	6	1095	17	1392	4	37.0	1.037	27.7	4.1	81	6.6	24.5	6.5	3.3	26.5	14.8
23	00V56BR	X11446 BG/RR-170	1352	1	1301	1	1395	3	37.4	1.021	27.6	4.6	82	6.4	23.1	7.3	3.3	25.7	19.2
24	01V79BR	PM126661BR-2069	1254	7	1221	4	1282	9	35.8	1.039	26.3	4.2	82	9.0	23.6	6.8	3.6	24.1	14.2
NO. OF TESTS IN AVERAGE			11	11	5	5	6	6	12	14	14	14	14	14	13	13	13	13	8

*STORM RESISTANCE: SCALE 0-5 WITH 5 MOST RESISTANT.

**VERTICILLIUM WILT SUSCEPTIBILITY: SCALE 0-99 WITH 99 MOST SUSCEPTIBLE.

***EARLINESS: SCALE 0-99 WITH 99 EARLIEST.

ONE TEST CORRESPONDS TO ONE REPLICATED YIELD TRIAL (3 REPS).

200200120

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING CORP.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER PMX 126661 RR DPX 00V06R	3. VARIETY NAME PM 2266 RR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 157 Scott, Mississippi 38772	5. TELEPHONE (Include area code) 662.742.4141.	6. FAX (Include area code) 662.742.3182
7. PVPO NUMBER 200200120		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

☒ YES☐ NO

10. Is the applicant the original owner?

☒ YES☐ NOIf no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☐ NO

If no, give name of country

11. Additional explanation on ownership (if needed, use the reverse for extra space):

PM 2266 RR contains a proprietary gene, patented by the Monsanto Company and licensed to D&PL, which encodes a protein which provides tolerance to glyphosate herbicide in cotton cultivars.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.